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☐ 1. Document ID: US 5491808 A

L1: Entry 1 of 1   File: USPT   Feb 13, 1996

US-PAT-NO: <u>5491808</u>
DOCUMENT-IDENTIFIER: US 5491808 A

TITLE: Method for tracking memory allocation in network file server

DATE-ISSUED: February 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Geist, Jr.; James F.	Redmond	WA		

US-CL-CURRENT: <u>711</u>/<u>100</u>; <u>707</u>/<u>205</u>, <u>710</u>/<u>100</u>, <u>710</u>/<u>240</u>, <u>711</u>/<u>200</u>

ABSTRACT:

A method for dynamically tracking memory resource allocations/deallocations of a
program resident in the memory of a network file server is disclosed wherein calls
to system memory allocation functions are intercepted and diverted to memory
resident tracker routines, interposed between the caller and the called functions
to monitor returns from the called functions. Public symbol lists of application
program interfaces are scanned for functions to be tracked, and function entry
points are taken over by replacing initial instructions of the system functions
with jumps to the tracker routines. The tracker routines then call the remainder of
the system functions and record the reply before passing control back to the
original caller program. Information on allocated blocks is written to ABLK blocks
taken from an ABLK free block pool allocated at tracker startup. Subsequent
deallocations of the allocated blocks release the same ABLK blocks back to the ABLK
free pool. Information on "NULL" pointer and similar returns indicating
allocation/deallocation errors is written to MSG queue blocks taken from a MSG free
block pool allocated at tracker startup. Log file generator threads are activated
to list the filled ABLK and MSG blocks when signalled. Cleanup routines restore the
replaced code and deallocate all ABLK and MSG memory blocks when the tracker exits.

10 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Drawing-Des | Attorney-Name | Claims | KWIC | Draw De |